## P801013/W01

## **EUROPEAN PATENT OFFICE**

## Patent Abstracts of Japan

PUBLICATION NUMBER : 03221441 PUBLICATION DATE 30-09-91

APPLICATION DATE 26-01-90 APPLICATION NUMBER 02017432

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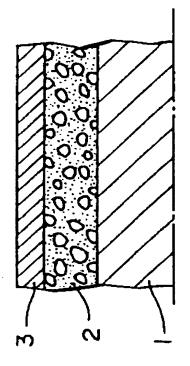
CO LTD;

INVENTOR: MIYAHARA KAORU;

INT.CL. : B32B 7/00 B32B 5/18 B32B 7/02

TITLE : ANTICORROSIVE AND

> **OXIDATION-RESISTANT MATERIAL** AND MANUFACTURE THEREOF



ABSTRACT: PURPOSE: To enable corrosion resistance and oxidation-resistant material to be obtained, in which cracks, delaminations, and the like due to thermal hysteresis never happen thereon by providing a porous buffer layer between a base material and a protective layer.

> CONSTITUTION: Slurry is controlled by dispersing fine particles consisting of silicon carbide and an organic binder into ethanol, and a base material 1 is applied therewith by the use of a brush. Following this, it is sintered in an ambient atmosphere of argon in order to form a porous buffer layer 2 that is rigidly close-adhered to the base material 1. Next, it is housed within a CVD device so as to form a fine protective layer 3 consisting of silicon carbide in use of a raw material gas of silicon tetrachloride, methane, and hydrogen.

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